



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**  
**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 372-6339**

## **NOTICE OF ACCEPTANCE (NOA)**

**[www.maimidade.gov/buildingcode](http://www.maimidade.gov/buildingcode)**

**PGT Industries**  
**1070 Technology Drive**  
**Nokomis, FL 34275**

### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "SH 500 Vinyl" White PVC Single Hung Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **5191-1**, titled "Vinyl Single Hung Window Impact", sheets 1 through 11 of 11, dated 08/07/08 with revision "B" dated 12/18/08, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 08-0820.14**  
**Expiration Date: January 08, 2014**  
**Approval Date: January 08, 2009**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **5191-1**, titled "Vinyl Single Hung Window Impact", sheets 1 through 11 of 11, dated 08/07/08 with revision "B" dated 12/18/08, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E.

**B. TESTS**


1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of a vinyl fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5710**, dated 08/13/08, signed and sealed by Carlos S. Rionda, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram, prepared by Architectural Testing, Inc., Test Report No. **ATI-84576.01-401-47**, dated 10/31/08, signed and sealed by Joseph A. Reed, P.E. *(For Reference only)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2004 and 2007, prepared by manufacturer, dated 11/25/08, signed and sealed by Robert L. Clark, P.E.  
**Complies with ASTM E1300-02/04**

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 08-0820.14  
Expiration Date: January 08, 2014  
Approval Date: January 08, 2009

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS**

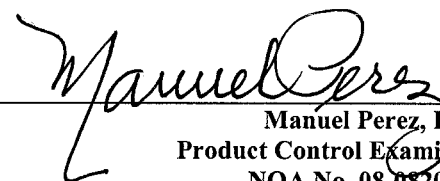
1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont DeNemours & Co., Inc. for their “**DuPont Butacite PVB, Interlayer**” dated 01/05/06, expiring on 12/11/10.
2. Notice of Acceptance No. **06-1220.01** issued to Spectus Systems – A Mikron Company for their “**White Rigid PVC Exterior Extrusions for Windows and Doors**” dated 01/11/07, expiring on 12/26/11.

**F. STATEMENTS**

1. Statement letter of conformance, dated August 12, 2008, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of no financial interest, dated August 12, 2008, signed and sealed by Robert L. Clark, P.E.
3. Laboratory compliance letter for Test Report No. **FTL-5710**, issued by Fenestration Testing Laboratory, Inc., dated 08/13/08, signed and sealed by Carlos S. Rionda, P.E.
4. Laboratory compliance letter for Test Report no. **ATI-84576.01-401-47**, issued by Architectural Testing, Inc., dated October 31, 2008, signed and sealed by Joseph A. Reed, P.E. **(For Reference only)**

**G. OTHERS**

1. None

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 08-0820.14

Expiration Date: January 08, 2014  
Approval Date: January 08, 2009

GENERAL NOTES: LARGE MISSILE IMPACT SINGLE HUNG BOX FRAME AND INTEGRAL FIN WINDOWS

1. GLAZING OPTIONS:
- A. 3/4" LAMI I.G. GLASS COMPRISED OF (1) LITE OF 1/8" TEMPERED OR ANNEALED GLASS, AIRSPACE AND 5/16" LAMINATED GLASS WHICH IS COMPRISED OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 INTERLAYER OF DUPONT PVB.
- B. 7/8" LAMI I.G. GLASS COMPRISED OF (1) LITE OF 1/8" TEMPERED OR ANNEALED GLASS, AIRSPACE AND 5/16" LAMINATED GLASS WHICH IS COMPRISED OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 INTERLAYER OF DUPONT PVB.
2. CONFIGURATIONS: 1/1 AND PROVIEW
3. DESIGN PRESSURES: -70/+60 PSF (ALL GLASS TYPES LISTED ABOVE)
- A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-02.
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-02.
4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION. SEE SHEETS 9 THROUGH 11 FOR ANCHORAGE DETAILS.
5. SHUTTERS ARE NOT REQUIRED FOR UNITS LESS THAN 30'.
6. REFERENCES: TEST REPORTS FTL-5710.  
ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION  
ADM-2000 ALUMINUM DESIGN MANUAL
7. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

NOA DRAWING TABLE OF CONTENTS

SHEET

GENERAL NOTES.....	1
ELEVATIONS.....	2
GLAZING DETAILS.....	3
GLAZING DETAILS.....	4
SECTIONS, I.F. FRAME.....	5
SECTIONS, BOX FRAME.....	6
PARTS LIST.....	7
EXTRUSIONS.....	8
ANCHORAGE SPACING, BOX FRAME...	9
ANCHORAGE DETAILS, BOX FRAME.....	10
ANCHORAGE DETAILS, I.F. FRAME.....	11

Approved as complying with the  
Florida Building Code  
Date 01/08/2009  
NOA# 08-0820.14  
Miami Dade Product Control  
Division  
By Manuel Perez

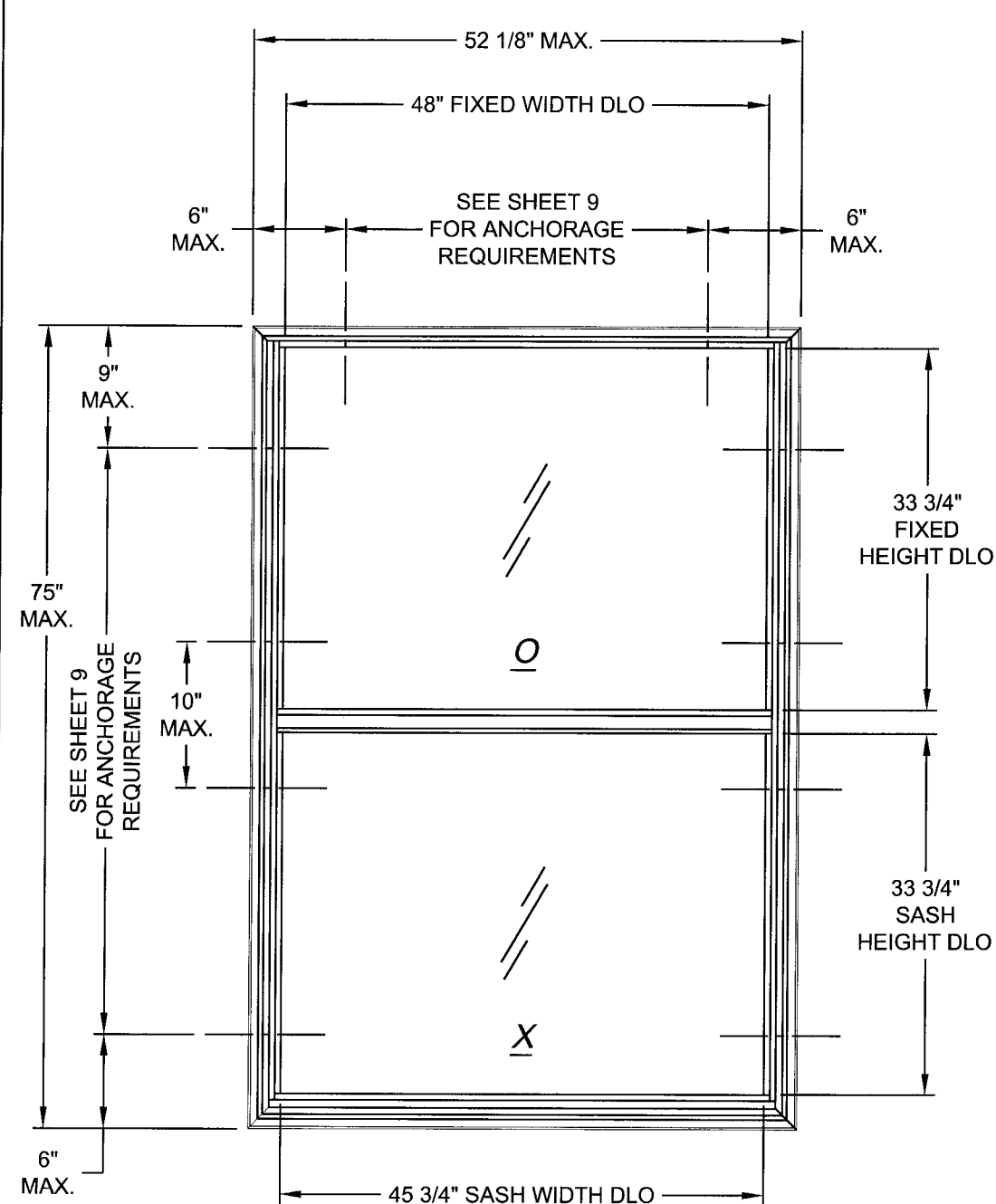
Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
Revsd By:	Date:	Revisions:	
D.G.	12/18/08	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
D.G.	8/07/08		

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
  
P.O. BOX 1529  
NOKOMIS, FL 34274

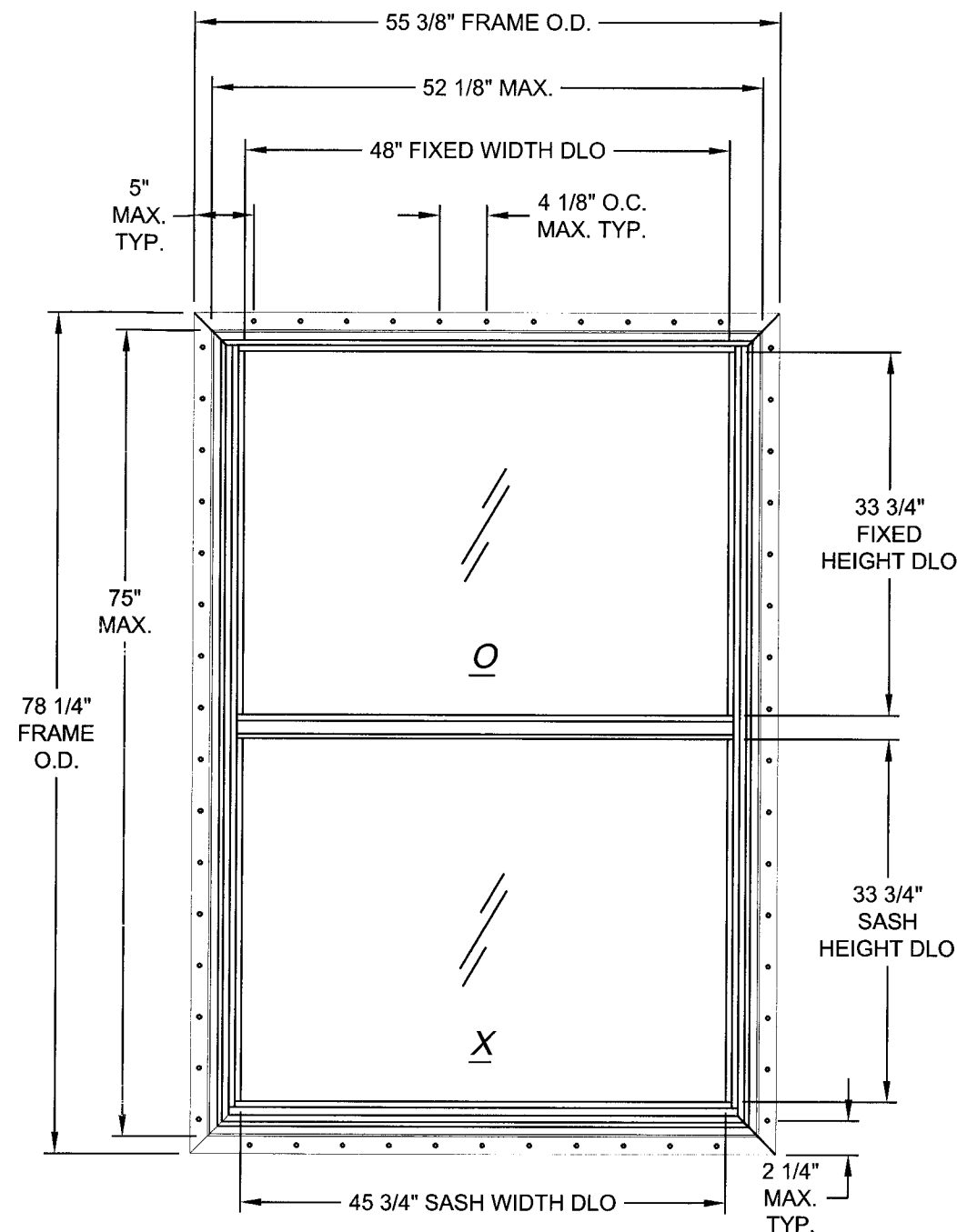


Description:				
GENERAL NOTES				
Title:				
Vinyl Single Hung Window, Large Missile Impact				
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	NTS	1 of 11	5191-1	B

Robert L. Clark, P.E.  
PE #39712  
Structural



**BOX FRAME**  
MAX. SIZE = 52.125" X 75"



**INTEGRAL FIN**  
MAX. SIZE = 52.125" X 75"

**NOTE:**

1. FOR BOX FRAME SECTIONS SEE SHEET 6 AND ANCHORAGE INFORMATION SEE SHEETS 9 AND 10.
2. FOR INTEGRAL FIN FRAME SECTIONS SEE SHEET 5 AND ANCHORAGE INFORMATION SEE SHEET 11.

Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08
Revsd By: D.G.	Date: 12/18/08	Revisions: B	ADDED 10" MAX. DIMENSION TO BOX FRAME ELEVATION
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

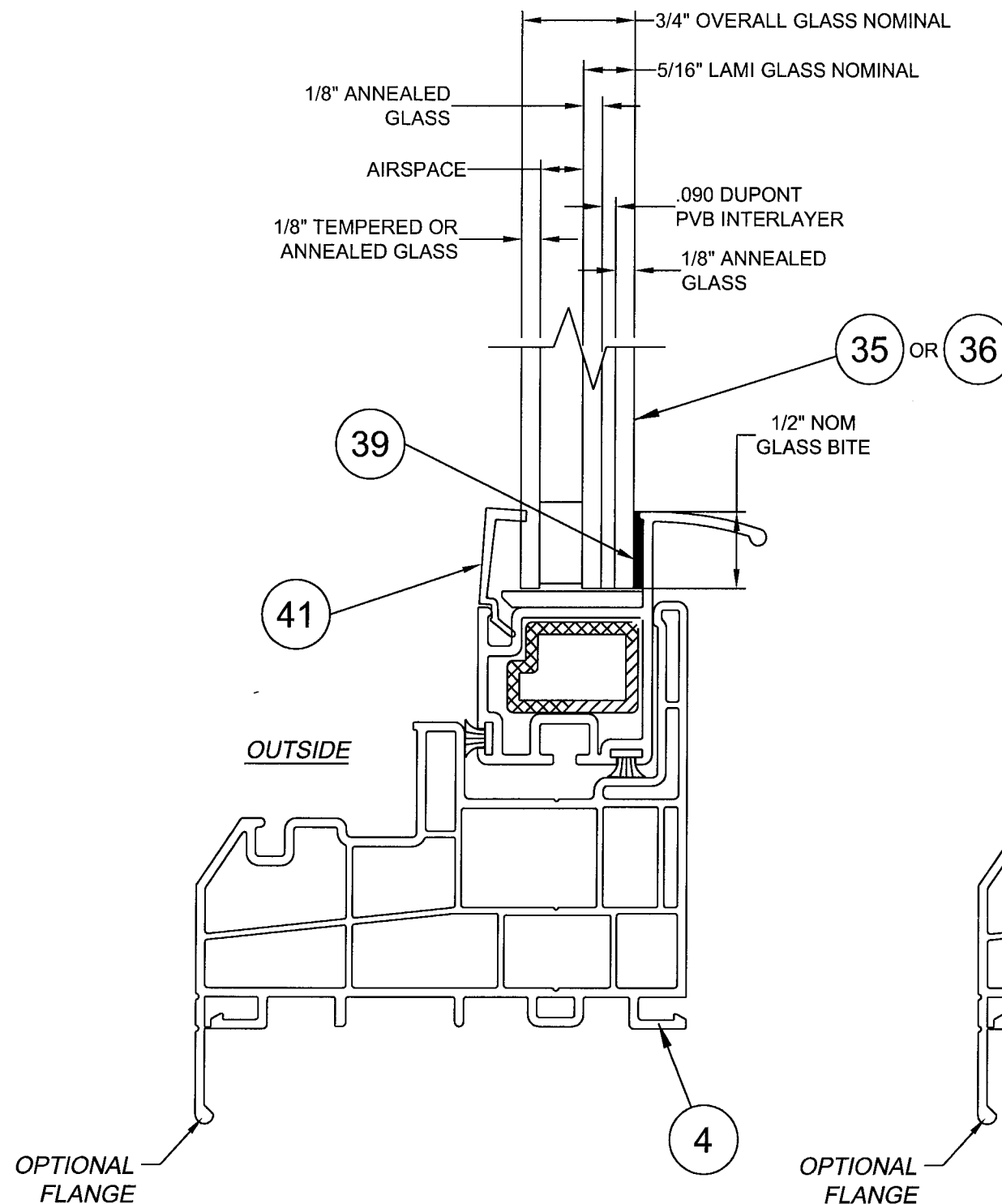
1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
  
P.O. BOX 1529  
NOKOMIS, FL 34274



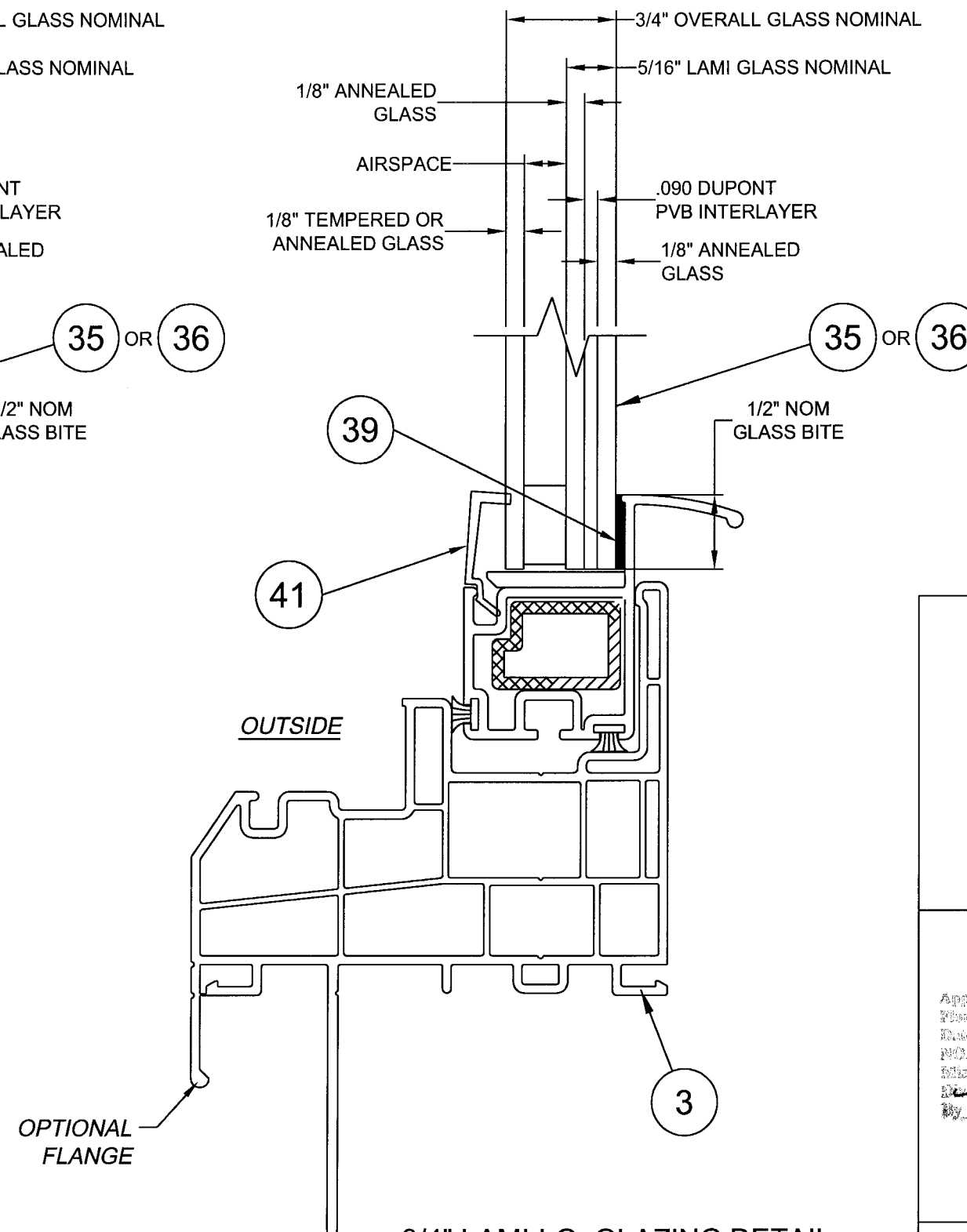
Description: <b>ELEVATIONS</b>			
Title: <b>Vinyl Single Hung Window, Large Missile Impact</b>			
Series/Model: SH500	Scale: NTS	Sheet: 2 of 11	Drawing No: 5191-1
Rev: B			

Approved as per letter with the  
Florida Building Code  
Date: 01/08/2009  
NOAA 05-0820.14  
What Does Product Control?  
By: *Manuel Perez*

*Robert L. Clark*  
12/18/08  
Robert L. Clark, P.E.  
PE #39712  
Structural



3/4" LAMI I.G. GLAZING DETAIL  
WITH 5/16" LAMI GLASS AND 1/8" CAP  
BOX OR INTEGRAL FIN FRAME  
(BOX FRAME SHOWN)



3/4" LAMI I.G. GLAZING DETAIL  
WITH 5/16" LAMI GLASS AND 1/8" CAP  
BOX OR INTEGRAL FIN FRAME  
(INTEGRAL FIN FRAME SHOWN)

Approved as complying with the  
Florida Building Code  
Date: 01/03/2009  
Permit: 08-0820.14  
Miami-Dade Product Control  
By: *Manuel Perez*

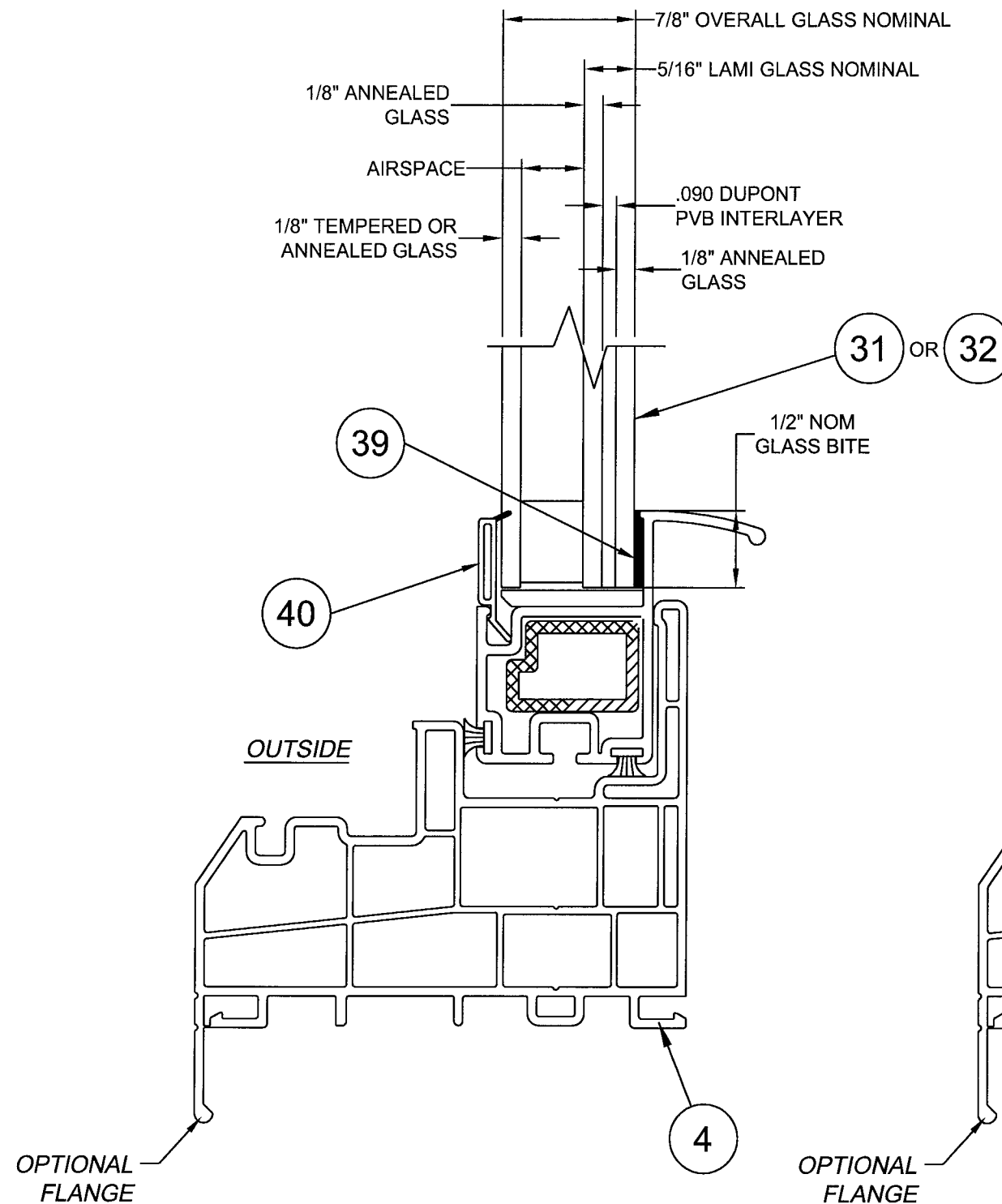
*Robert L. Clark*  
12/18/08  
Robert L. Clark, P.E.  
PE #39712  
Structural

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
Revsd By:	Date:	Revisions:	
D.G.	12/18/08	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
D.G.	08/07/08		

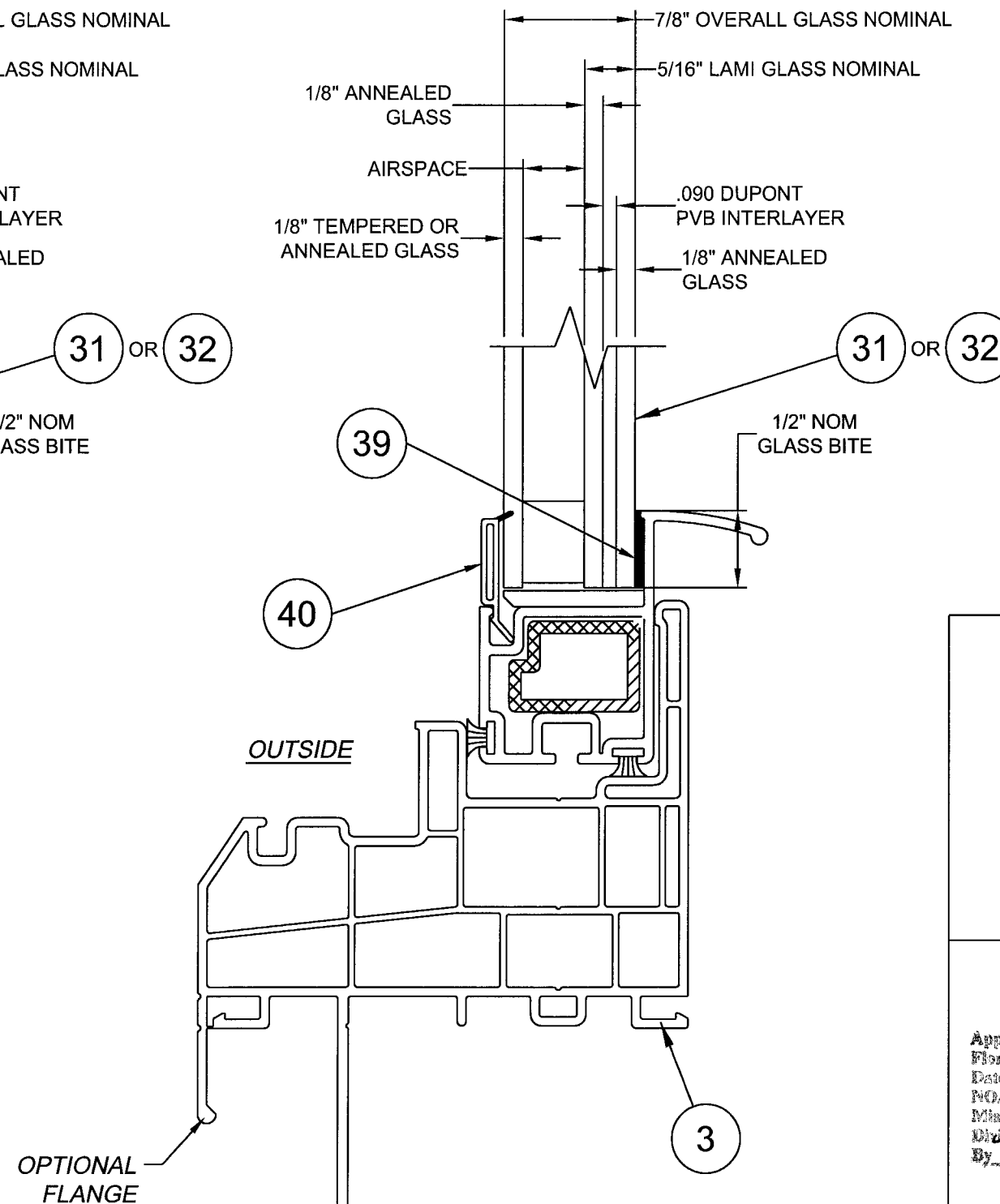
1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

**PGI**  
Visibly Better

Description:	GLAZING DETAILS			
Title:	Vinyl Single Hung Window, Large Missile Impact			
Series/Model:	SH500	Scale:	Full	Sheet:
				3 of 11
Drawing No.	5191-1	Rev:	B	



**7/8" LAMI I.G. GLAZING DETAIL  
WITH 5/16" LAMI GLASS AND 1/8" CAP  
BOX OR INTEGRAL FIN FRAME  
(BOX FRAME SHOWN)**



**7/8" LAMI I.G. GLAZING DETAIL  
WITH 5/16" LAMI GLASS AND 1/8" CAP  
BOX OR INTEGRAL FIN FRAME  
(INTEGRAL FIN FRAME SHOWN)**

Approved as complying with the  
Florida Building Code  
Date 01/08/2009  
PCAA# 08-0820.14  
Miami Dade Product Control  
Division  
By M. Perez

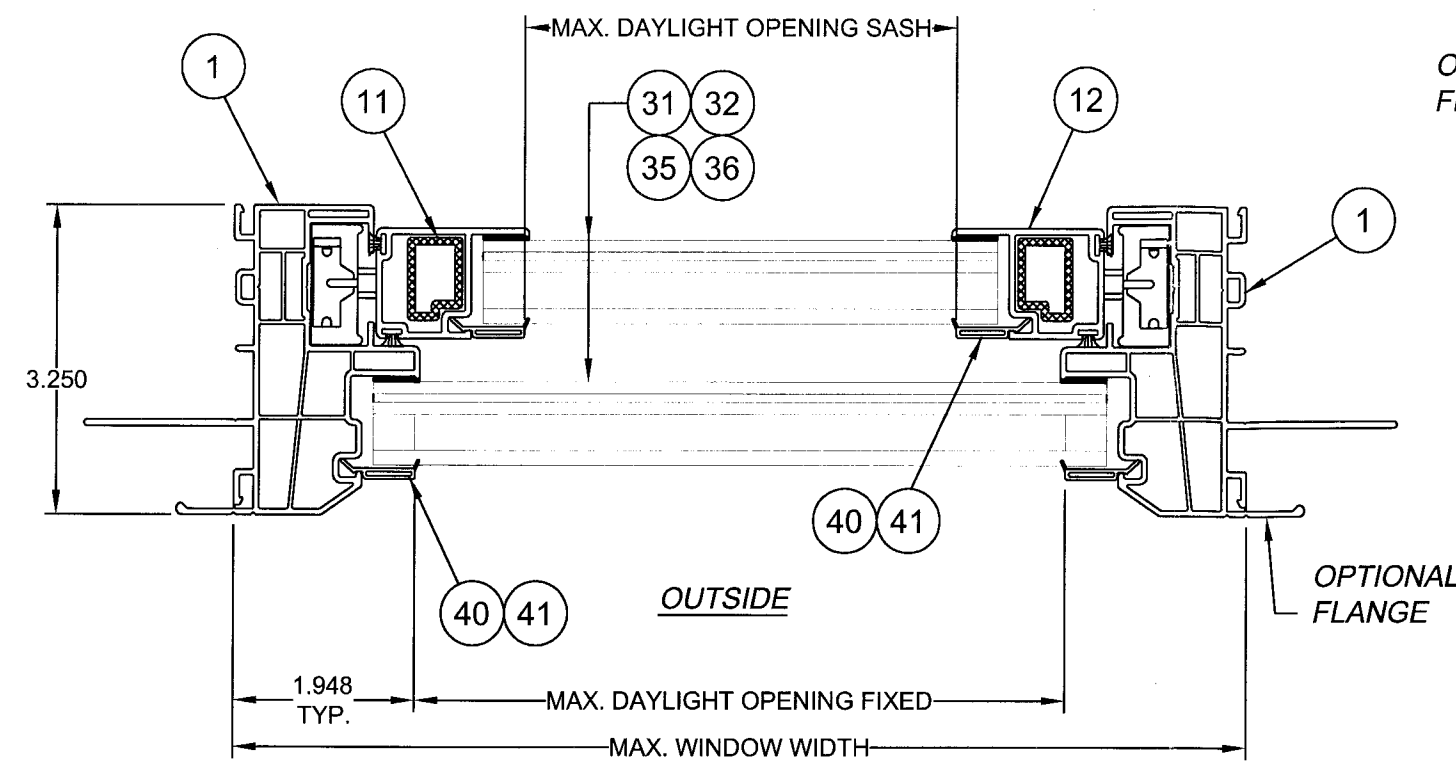
Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08
Revsd By: D.G.	Date: 12/18/08	Revisions: B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
  
P.O. BOX 1529  
NOKOMIS, FL 34274

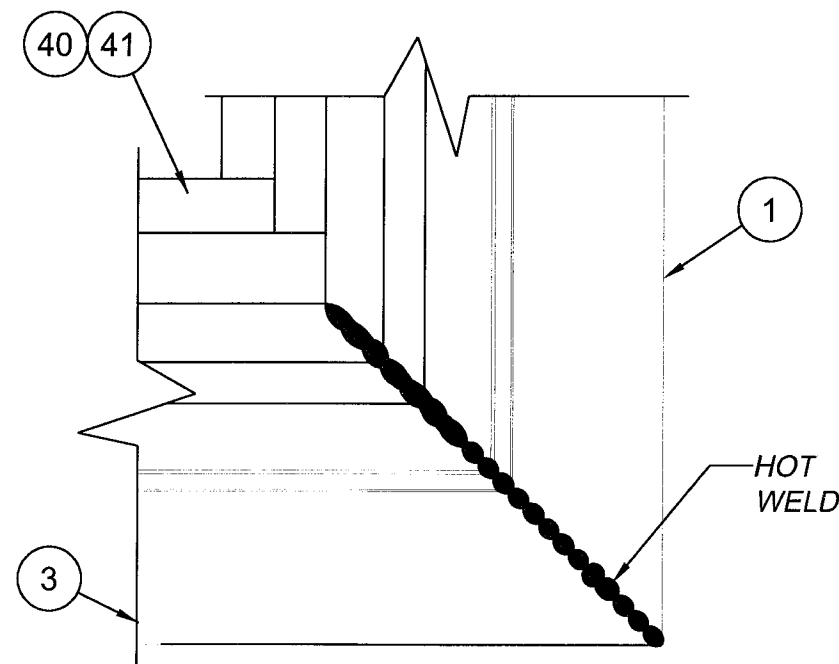
**PGT**  
Visibly Better

Description: <b>GLAZING DETAILS</b>			
Title: <b>Vinyl Single Hung Window, Large Missile Impact</b>			
Series/Model: SH500	Scale: NTS	Sheet: 4 of 11	Drawing No. 5191-1
Rev: B			

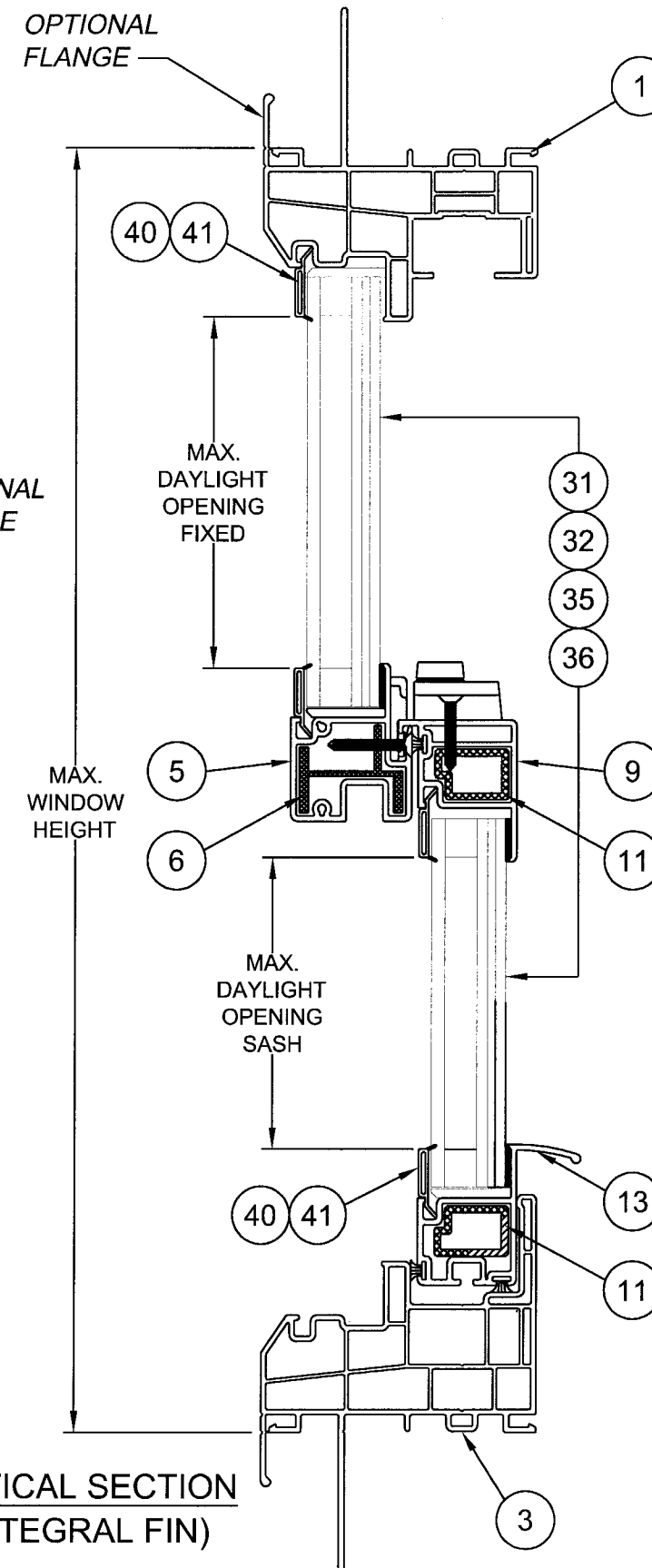
12/18/08  
Robert L. Clark, P.E.  
PE #39712  
Structural



**HORIZONTAL SECTION  
(INTEGRAL FIN)**



**HOT WELD CORNER ASSEMBLY  
(INTEGRAL FIN)**




**VERTICAL SECTION  
(INTEGRAL FIN)**

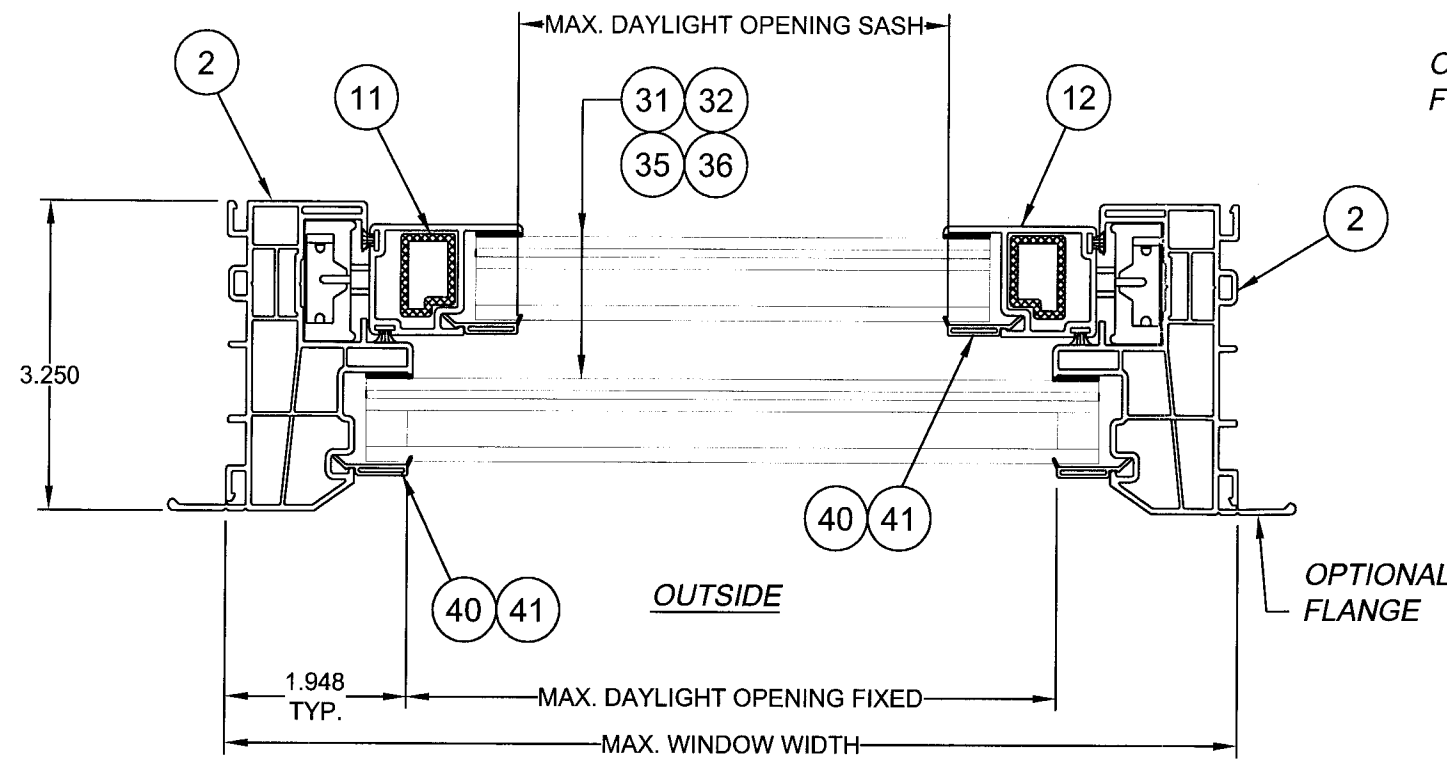
Approved as complying with the  
Florida Building Code  
Date 01/08/2009  
NOAA 08-0820-14  
Miami Dade Product Control  
Division  
By [Signature]

[Signature]  
12/18/08

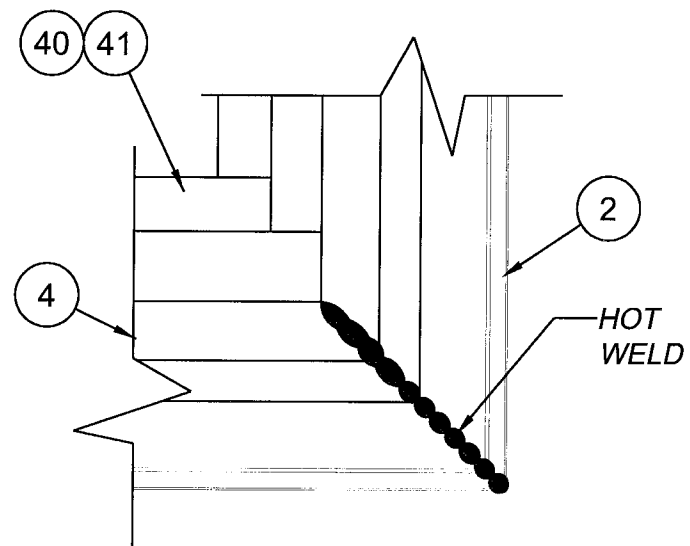
Robert L. Clark, P.E.  
PE #39712  
Structural

Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: <b>SECTIONS, INTEGRAL FIN FRAME</b>				
Revsd By: D.G.	Date: 12/18/08	Revisions: B	NO CHANGE THIS SHEET			Title: <b>Vinyl Single Hung Window, Large Missile Impact</b>				
Revsd By:	Date:	Revisions:				Series/Model: SH500	Scale: Half	Sheet: 5 of 11	Drawing No. 5191-1	Rev. B
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:							

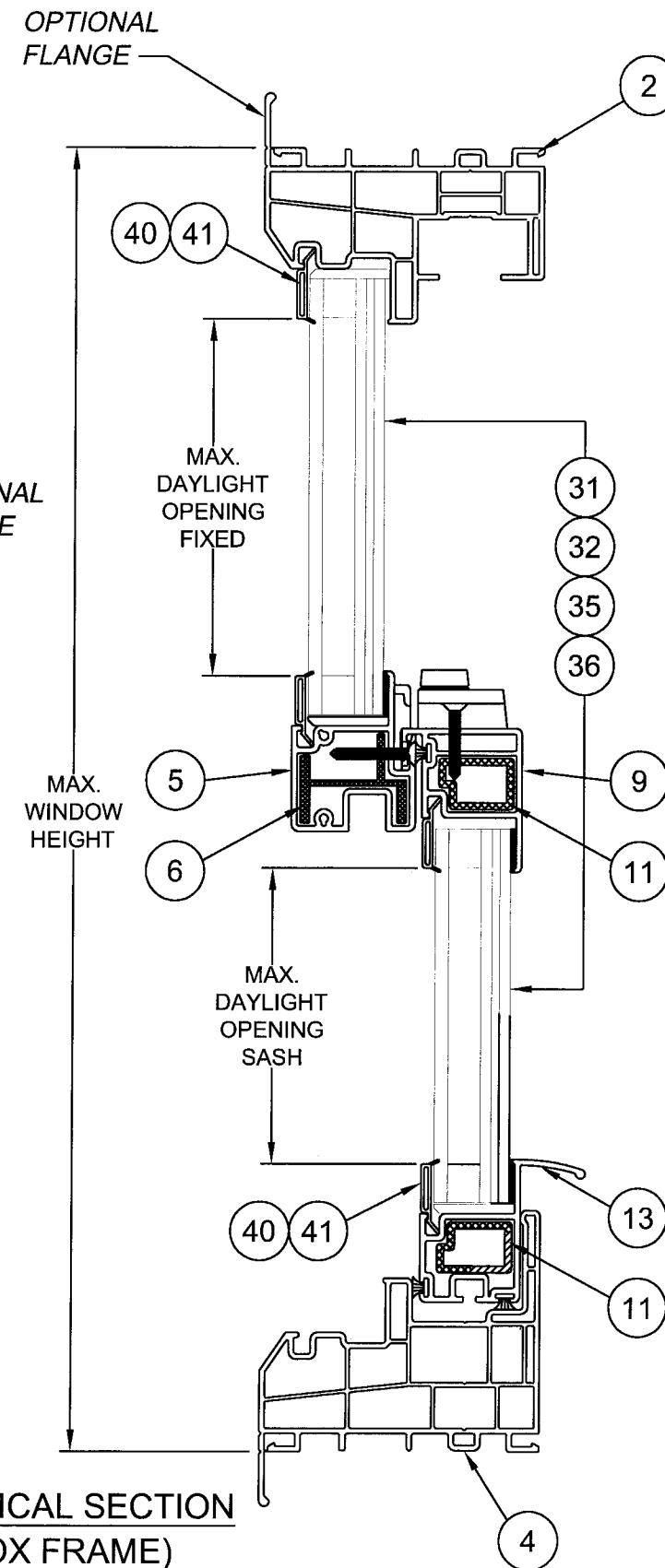




**HORIZONTAL SECTION  
(BOX FRAME)**



**HOT WELD CORNER ASSEMBLY  
(BOX FRAME)**



**VERTICAL SECTION  
(BOX FRAME)**

Approved as complying with the  
Florida Building Code  
Date: 01/08/2009  
NOAA 08-0820.14  
Miami Dade Product Control  
Division  
By: Manuel Perez

11/18/08

Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08
Revsd By: D.G.	Date: 12/18/08	Revisions: B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

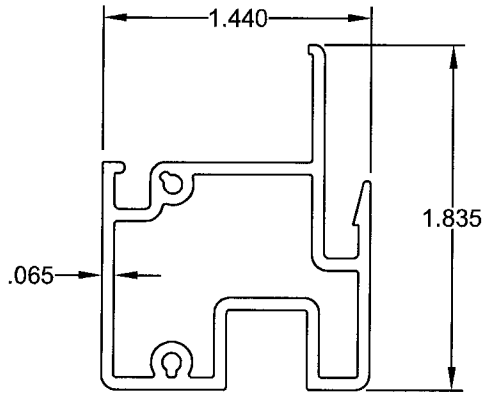
1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
  
P.O. BOX 1529  
NOKOMIS, FL 34274



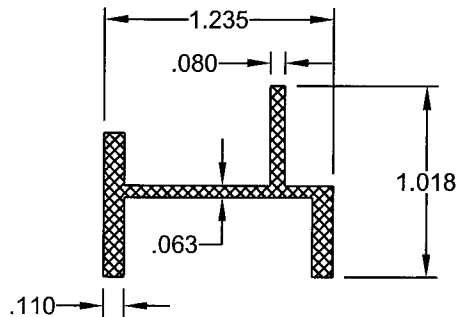
Description: <b>SECTIONS, BOX FRAME</b>			
Title: <b>Vinyl Single Hung Window, Large Missile Impact</b>			
Series/Model: SH500	Scale: Half	Sheet: 6 of 11	Drawing No.: 5191-1
Rev: B			

Robert L. Clark, P.E.  
PE #39712  
Structural

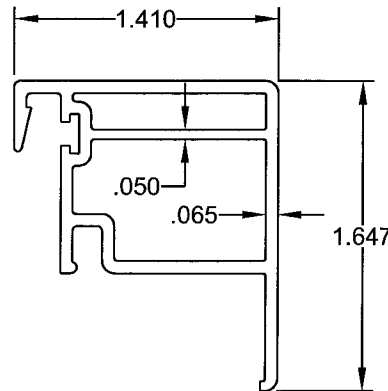
ITEM	DWG NO.	PART #	DESCRIPTION
1	9521	65163	INTEGRAL FIN FRAME HEAD & JAMB
2	9871	69871	BOX FRAME HEAD & JAMB
3	9520	65164	INTEGRAL FIN FRAME SILL
4	9870	69870	BOX FRAME SILL
5	7940	65102	FIXED MEETING RAIL
6	7126.1	65103	MEETING RAIL REINFORCEMENT
7	7942	65109	SASH STOP
8	8873	65117	BALANCE COVERS
9	7092	65105	SASH INTERLOCK
10		61644W	WSTP., .187 X .270 FIN SEAL
11	7092.1	65114	SASH REINFORCEMENT
12	7093	65106	SASH SIDE RAIL
13	7745	65113	SASH LIFT RAIL
14	1669	71669SP	MR SUPPORT PLATE
15	15B110	71694	TILT BALANCE SHOES
16	1686	7FHPSSPF	PIVOT BARS
17		76208SLAW	CAM SWEEP LOCK
18		76133SLKW	CAM SWEEP LOCK KEEPER
19		79803WF	WEEP HOLE COVER
20		7675RHTL	RH TILT LATCH
21		7675LHTL	LH TILT LATCH
22		71669SP	ALUM. SCREW SUPPORT PLATE
23		71038W	INSTALL HOLE PLUG
24		71684K	SETTING BLOCK
25		71684AK	SETTING BLOCK - SELF ADHESIVE
26		76X1FPTWX	6 X 1" FH TECH (410 SS PAINTED)
27		7612FPTWX	6 X 1/2" FH (410 SS PAINTED)
28		76X2TPA410X	6 X 2" TH VINYL SCREW SS
29		78X114FPAB410X	#8 X 1 1/4"
30		8X1FPAX	#8 X 1"



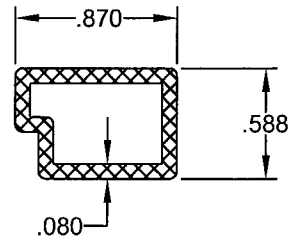
**ITEM 5,**  
**FIXED MEETING RAIL**  
MAT'L: White Ridged PVC  
by MIKRON Industries, Inc.  
DWG NO. 7940



**ITEM 6,**  
**FIXED MTG. RAIL REINF.**  
MAT'L: Alum. (6063-T6)  
DWG NO. 7126.1

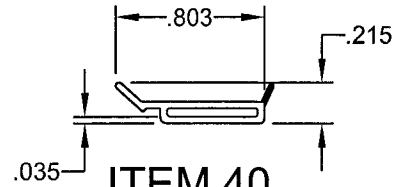


**ITEM 9,**  
**SASH INTERLOCK**  
MAT'L: White Ridged PVC  
by MIKRON Industries, Inc.  
DWG NO. 7092

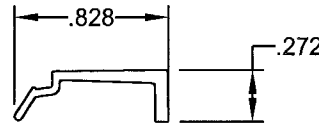


**ITEM 11,**  
**SASH REINFORCEMENT**  
MAT'L: Alum. (6063-T6)  
DWG NO. 7092.1

ITEM	DWG NO.	PART #	DESCRIPTION
31			7/8" LAM I.G. GLASS: 1/8" TEMPERED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAM)
32			7/8" LAM I.G. GLASS: 1/8" ANNEALED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAM)
33			
34			
35			3/4" LAM I.G. GLASS: 1/8" TEMPERED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAM)
36			3/4" LAM I.G. GLASS: 1/8" ANNEALED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAM)
37			
38			
39			SILICONE DOW 1199
40	6492	65112	GLAZING BEAD
41	8483	65148	SDL GLAZING BEAD



**ITEM 40,**  
**I.G. BEAD**  
MAT'L: White Ridged PVC  
by MIKRON Industries, Inc.  
DWG NO. 6492



**ITEM 41,**  
**SDL BEAD**  
MAT'L: White Ridged PVC  
by MIKRON Industries, Inc.  
DWG NO. 8483

Approved as complying with the  
Florida Building Code  
Date 01/08/2009  
NOA# 08-0820.14  
Miami Date Product Control  
Division  
By Mamuel Perez

R. L. Clark  
12/18/08

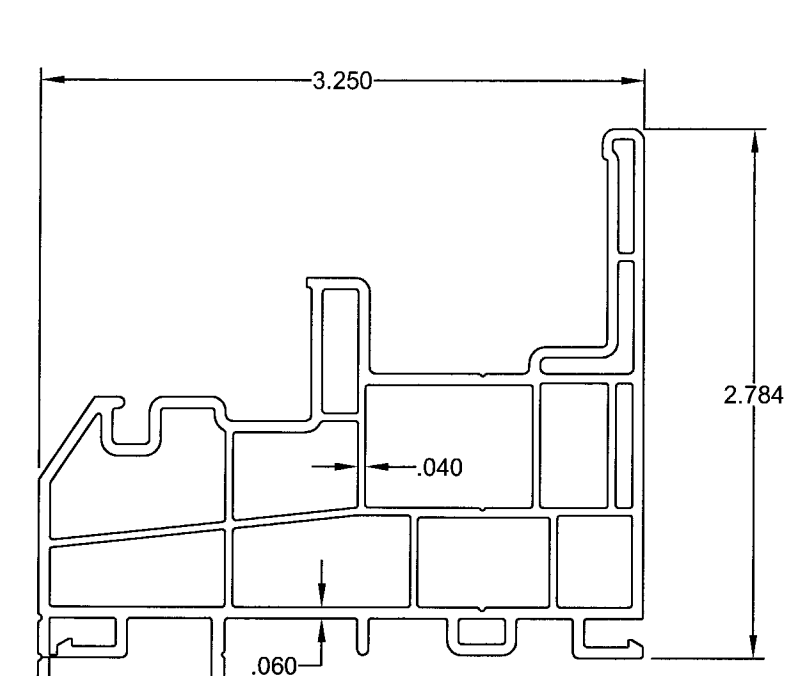
Robert L. Clark, P.E.  
PE #39712  
Structural

Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08
Revsd By: D.G.	Date: 12/18/08	Revisions: B	ADDED DIMENSIONS TO ALUM. EXTRUSIONS
Revsd By: D.G.	Date: 08/07/08	Checked By:	Date:

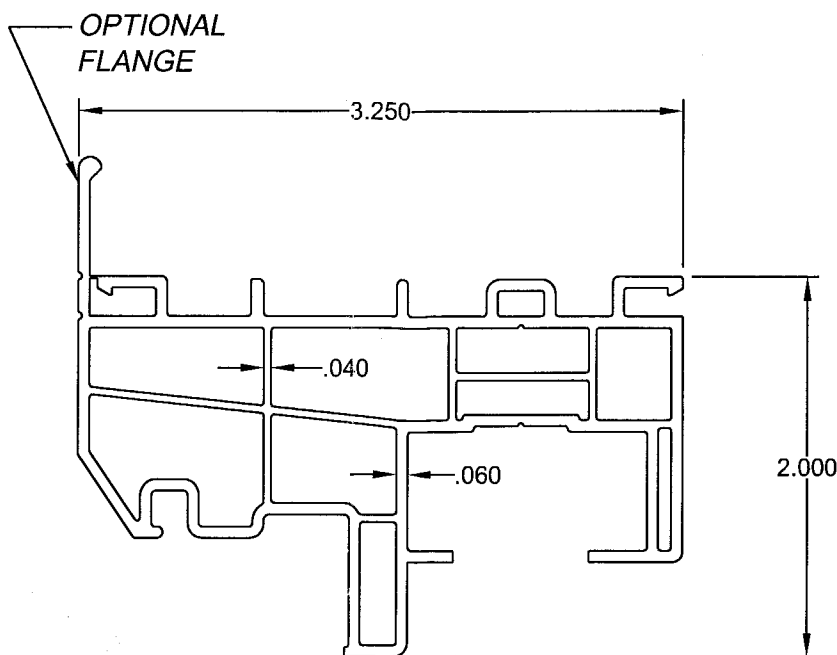
1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274



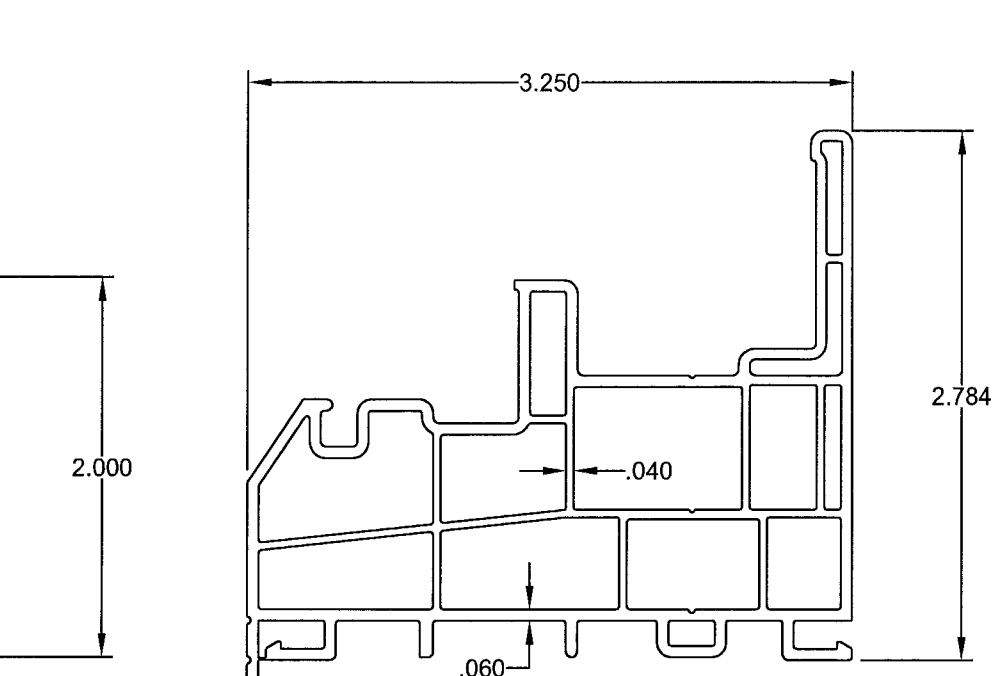
Description: <b>PARTS LIST AND EXTRUSIONS</b>			
Title: <b>Vinyl Single Hung Window, Large Missile Impact</b>			
Series/Model: SH500	Scale: NTS	Sheet: 7 of 11	Drawing No. 5191-1
Rev: B			



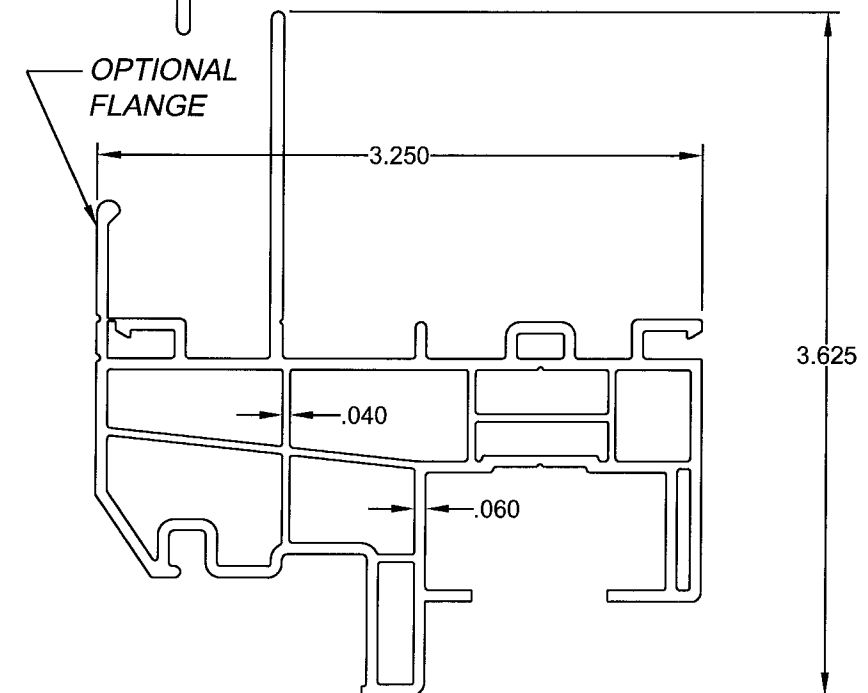
**ITEM 3, INTEGRAL FIN SILL**  
 MAT'L: White Ridged PVC by MIKRON Industries, Inc.  
 DWG NO. 9285



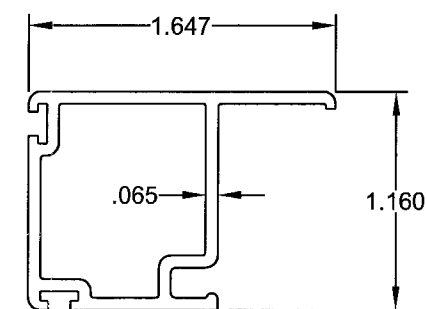
**ITEM 2, BOX FRAME HEAD/JAMB**  
 MAT'L: White Ridged PVC  
 by MIKRON Industries, Inc.  
 DWG NO. 9288



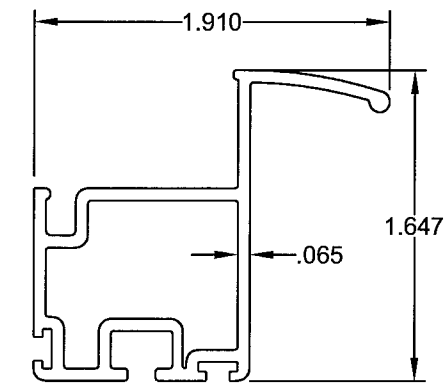
**ITEM 4, BOX FRAME SILL**  
 MAT'L: White Ridged PVC  
 by MIKRON Industries, Inc.  
 DWG NO. 9286



**ITEM 1, INTEGRAL FIN HEAD/JAMB**  
 MAT'L: White Ridged PVC by MIKRON Industries, Inc.  
 DWG NO. 9287



**ITEM 12, SASH SIDE RAIL**  
 MAT'L: White Ridged PVC  
 by MIKRON Industries, Inc.  
 DWG NO. 7093




**ITEM 13, SASH LIFT RAIL**  
 MAT'L: White Ridged PVC  
 by MIKRON Industries, Inc.  
 DWG NO. 7745

Approved as complying with the  
 Florida Building Code  
 Date 01/08/2009  
 NOAH 08-6820.14  
 Miami Date Product Control  
 By Manuel Perez








Robert L. Clark  
12/18/08

Robert L. Clark, P.E.  
 PE #39712  
 Structural

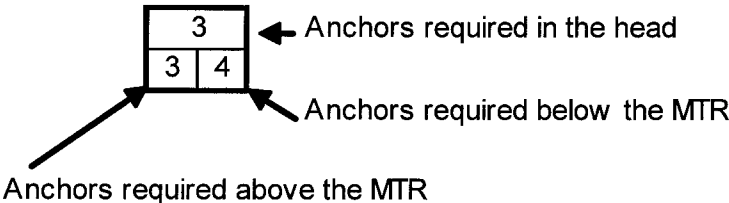
Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: <b>EXTRUSIONS</b>				
Revsd By: D.G.	Date: 12/18/08	Revisions: B	NO CHANGE THIS SHEET			Title: <b>Vinyl Single Hung Window, Large Missile Impact</b>				
Revsd By:	Date:	Revisions:				Series/Model: SH500	Scale: Half	Sheet: 8 of 11	Drawing No: 5191-1	Rev: B
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:							

ANCHOR QUANTITIES

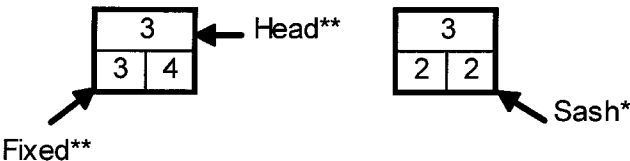
TABLE 1

TABLE 1			WINDOW WIDTH										
View		1/1	16	20	24	28	32	36	40	44	48	52 1/8	
Fixed	Sash												
W I N D O W		36	24	2	2	2	2	2	3	3	3	3	3
				1   1	1   1	1   1	1   1	1   1	1   1	1   1	1   1	1   2	1   2
	25	45	30	2	2	2	2	2	3	3	3	3	3
				1   1	1   1	1   1	1   1	1   1	1   1	1   2	1   2	1   2	1   2
	30	54	36	2	2	2	2	2	3	3	3	3	3
				1   1	1   1	1   1	1   1	1   2	1   2	1   2	1   2	1   2	1   2
	35	62 1/2	42	2	2	2	2	2	3	3	3	3	3
				1   2	1   2	1   2	1   2	1   2	1   2	1   2	2   2	2   2	2   2
	40		48	2	2	2	2	2	3	3	3	3	3
				2   2	2   2	2   2	2   2	2   2	2   2	2   2	2   2	2   3	2   3
H E I G H T	45		54	2	2	2	2	2	3	3	3	3	3
				2   2	2   2	2   2	2   2	2   2	2   2	2   2	2   3	2   3	2   3
	50		60	2	2	2	2	2	3	3	3	3	3
				2   2	2   2	2   2	2   2	2   2	2   2	2   3	2   3	2   3	2   3
	55		66	2	2	2	2	2	3	3	3	3	3
				2   3	2   3	2   3	2   3	2   3	2   3	2   3	2   3	2   3	3   4
	60		72	2	2	2	2	2	3	3	3	3	3
			2   3	2   3	2   3	2   3	2   3	2   3	2   3	3   3	3   4	3   4	
62 1/2		75	2	2	2	2	2	3	3	3	3	3	
			3   3	3   3	3   3	3   3	3   3	3   3	3   3	3   3	3   4	3   4	

Example: 52.125 x 75 For 1/1 Window s



Example: 52.125 x 62.500 For View Window s

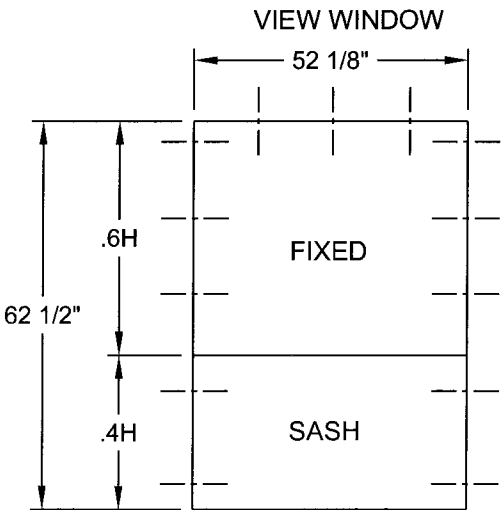
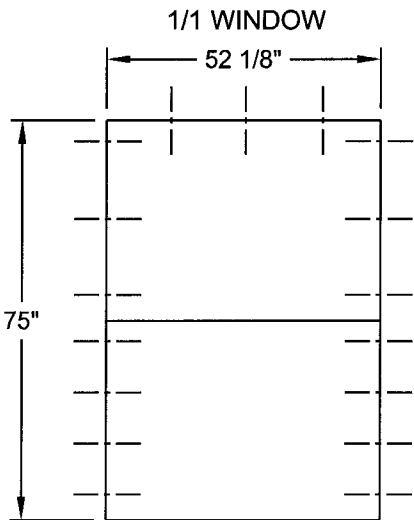



NOTE: FOR VIEW WINDOWS USE VIEW FIXED WINDOW HEIGHT FOR ANCHOR QUANTITY IN HEAD AND ABOVE THE MTR, AND USE THE VIEW SASH WINDOW HEIGHT FOR ANCHOR QUANTITY BELOW THE MTR. MAXIMUM HEIGHT FOR VIEW WINDOW IS 62 1/2".

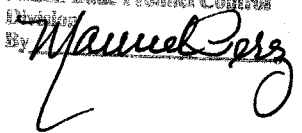
NOTE: FOR VIEW WINDOW THE LARGEST CAN NOT EXCEED THE TESTED SIZE.


ANCHORAGE NOTES FOR BOX FRAME:

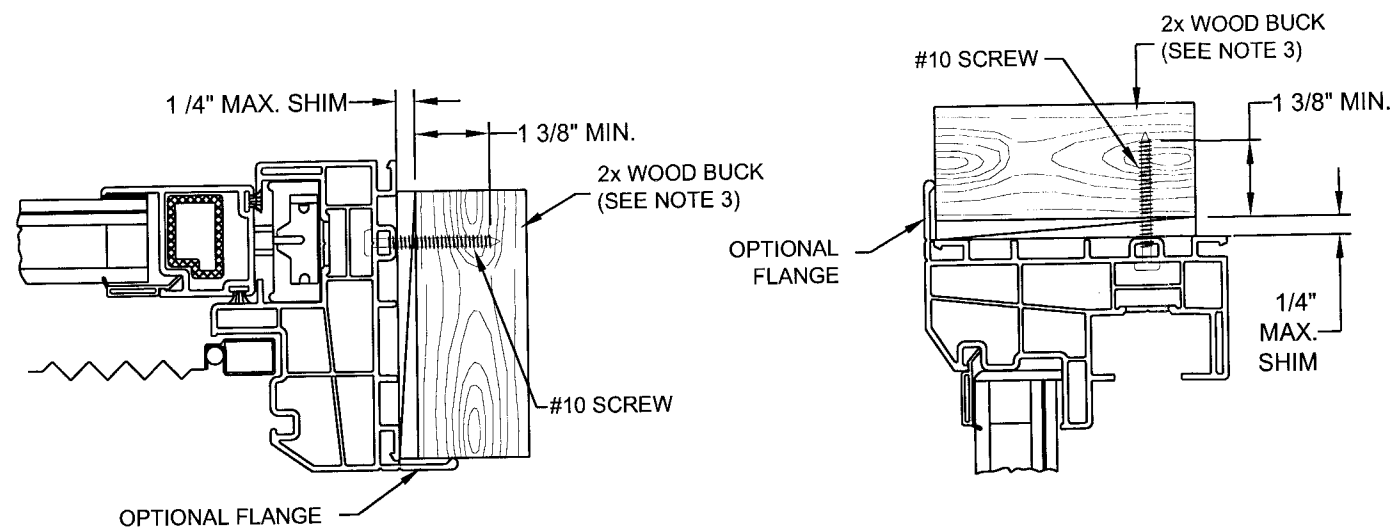
- ANCHOR TYPES: 1 - 3/16" ULTRACONS  
2 - #10 SCREWS
- ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS.  
HEAD - 6" MAX. FROM TOP CORNERS  
JAMBS - 9" MAX. FROM TOP CORNERS\*  
(\*NOT TO EXCEED 1/4 OF TOTAL WINDOW HEIGHT)  
6" MAX. FROM BOTTOM CORNERS  
4" MIN. BELOW MTG. RAIL  
SILL - ANCHORS NOT REQUIRED
- INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.
- ANCHORAGE SHOWN FOR BOX FRAME WITH OR WITHOUT OPTIONAL FLANGE.
- FOR INTEGRAL NAIL FIN FRAME ANCHORAGE, SEE SHEET 11.



Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274		Description: ANCHORAGE SPACING					
Revsd By: D.G.	Date: 12/18/08	Revisions: B	ADDED AND MODIFIED VIEW WINDOW EXAMPLES			Title: Vinyl Single Hung Window, Large Missile Impact					
Revsd By: D.G.	Date: 08/07/08	Checked By: D.G.	Date: 08/07/08			Series/Model: SH500	Scale: NTS	Sheet: 9 of 11	Drawing No: 5191-1	Rev: B	

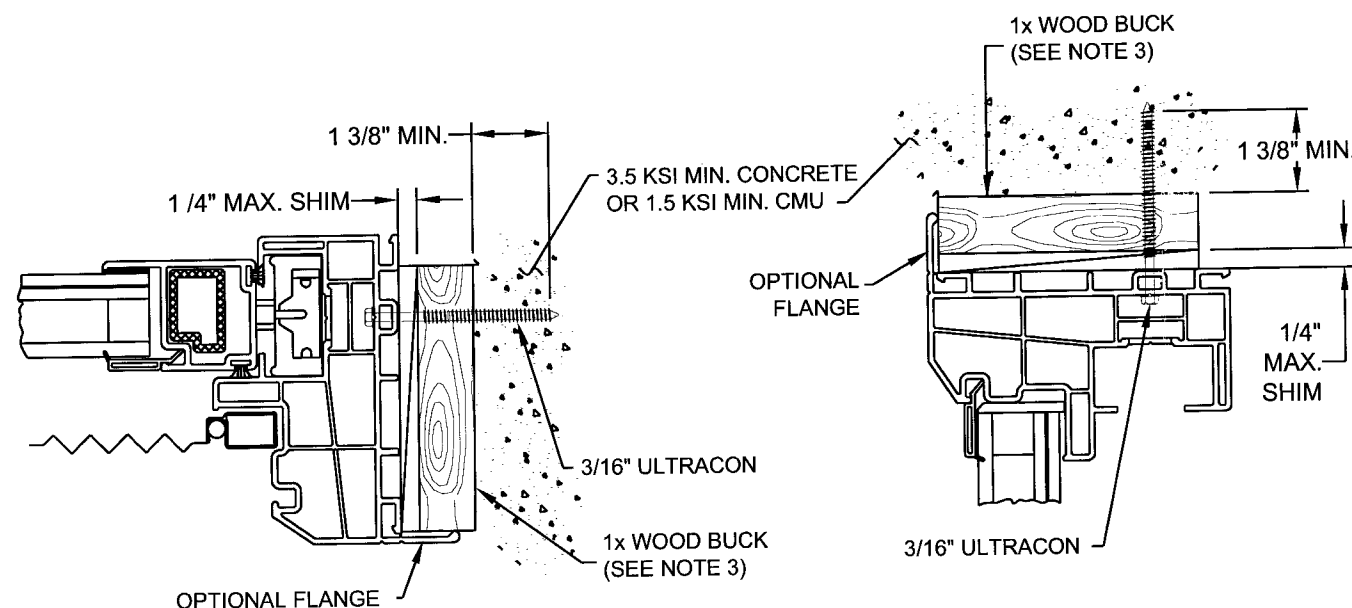
Approved as complying with the  
Florida Building Code  
Date: 01/08/2009  
NOAH 08-0820.14  
Miami Dade Product Control  
By: 

  
Robert L. Clark, P.E.  
PE #39712  
Structural



**JAMB W/ BOX FRAME  
THROUGH FRAME INTO 2x WOOD**

**HEAD W/ BOX FRAME  
THROUGH FRAME INTO 2x WOOD**



**JAMB W/ BOX FRAME  
THROUGH FRAME INTO CONCRETE  
1x BUCK OPTIONAL**

**HEAD W/ BOX FRAME  
THROUGH FRAME INTO CONCRETE  
1x BUCK OPTIONAL**

**NOTES:**

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 3/16" ULTRACON, EMBEDDED 1 3/8" MIN., DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1" MINIMUM.
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #10 STEEL SCREW, EMBEDDED 1 3/8" MIN..
3. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
4. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #10 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR ULTRACONS MAY BE USED.

Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08
Revsd By: D.G.	Date: 12/18/08	Revisions: B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 08/07/08	Checked By:	.G.

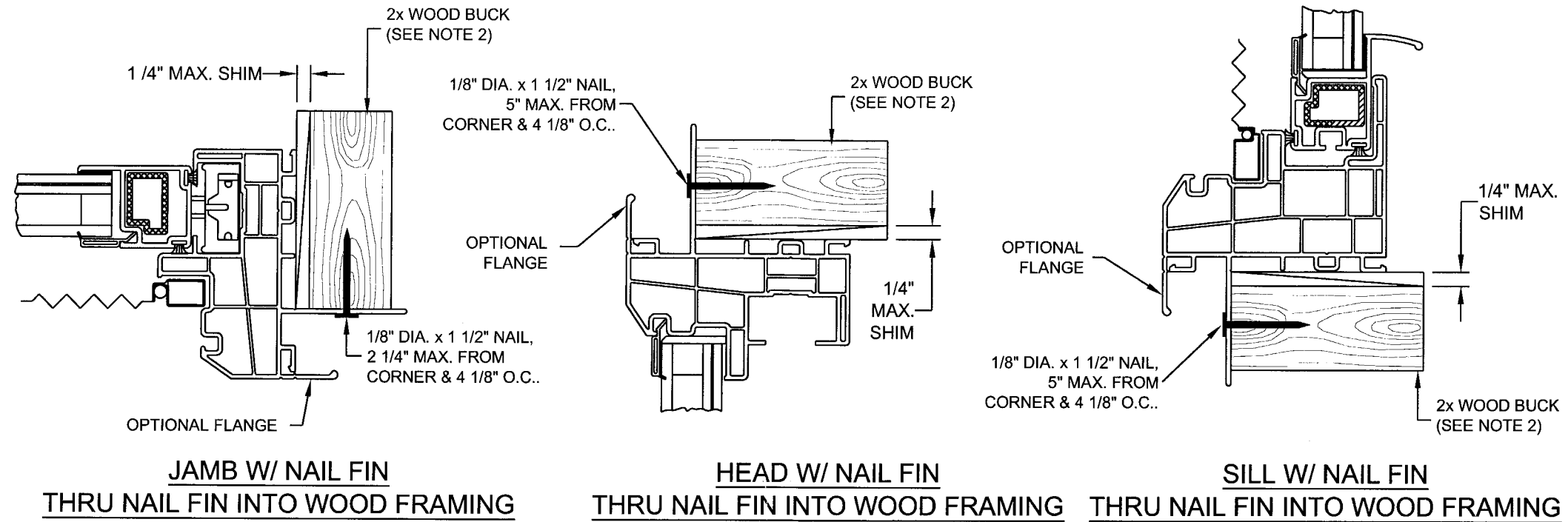
1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

**PGT**  
Visibly Better

Description: <b>ANCHORAGE DETAILS - BOX FRAME</b>			
Title: <b>Vinyl Single Hung Window, Large Missile Impact</b>			
Series/Model: SH500	Scale: NTS	Sheet: 10 of 11	Drawing No. 5191-1
			Rev: B

Approved as complying with the  
Florida Building Code  
Date: 01/08/2009  
MDAD: 08-0820.14  
Miami Dade Product Control  
Division  
By: *Manuel Perez*

*Robert L. Clark*  
12/18/08  
Robert L. Clark, P.E.  
PE #39712  
Structural



**NOTES:**

1. FOR INTEGRAL FIN APPLICATIONS IN MIAMI-DADE COUNTY, USE 1/8" DIA. x 1 1/2" NAIL.
2. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
3. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #10 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR ULTRACONS MAY BE USED.

Revsd By: D.G.	Date: 11/25/08	Revisions: A	PER MIAMI-DADE LETTER DATED 10/31/08
Revsd By: D.G.	Date: 12/18/08	Revisions: B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
  
P.O. BOX 1529  
NOKOMIS, FL 34274



Description: <b>ANCHORAGE DETAILS - Integral Fin Frame</b>			
Title: <b>Vinyl Single Hung Window, Large Missile Impact</b>			
Series/Model: SH500	Scale: NTS	Sheet: 11 of 11	Drawing No. 5191-1
Rev: B			

Approved as complying with the  
Florida Building Code  
Date 01/08/2009  
By 08-0820.14  
Miami Dade Product Control  
Division  
By Manuel Perez

Robert L. Clark  
12/18/08  
Robert L. Clark, P.E.  
PE #39712  
Structural